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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,504	06/05/2002	Didier Barat	EP/AD BIP 023029/US	1409
466	7590	12/28/2004		
YOUNG & THOMPSON			EXAMINER	
745 SOUTH 23RD STREET			ORTIZ, ANGELA Y	
2ND FLOOR				
ARLINGTON, VA 22202			ART UNIT	PAPER NUMBER
			1732	

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/019,504	BARAT ET AL.
Examiner	Art Unit	
Angela Ortiz	1732	

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 30 September 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,2 and 5-15 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 7 and 8 is/are allowed.

6) Claim(s) 1,5,6 and 13-15 is/are rejected.

7) Claim(s) 2 and 9-12 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 31 December 2001 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 5-6, 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jap. Ref. No. 08111132 (already of record).

The cited reference substantially teaches the basic claimed method including embedding electrical circuitry in a structure comprising providing a film 1, readable on the claimed web, with LED chip 3 located on one side of the film and circuitry 2a, 2b also on the film. A molded resin adhesive layer 6, readable on the claimed support, is molded to the film to surround the conductor pads. See the abstract and figures A, B, C as provided.

The cited reference does not teach a translucent material or the flexible or rigid properties per se.

As is best understood, figure C shows through openings formed in the molded top portion. See abstract and figure C. The reference further teaches as conventional the feature of the molding of a conventional key-top wherein an LED chip is used, which is known in the art to require a translucent material.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a translucent material and to form the through openings as figure C in the applied reference for molding any number of conventional products,

wherein the end use requires illumination features as depicted. Note that the adhesive is deemed to give some rigid properties to the molded product and the FPC is deemed readable on the flexible web as claimed.

Allowable Subject Matter

Claims 2, 9-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-8 are allowed.

Response to Arguments

Applicant's arguments filed 30 September 2004 have been fully considered but they are not persuasive.

Applicants argue that amended claim 1 sets forth that at least some of the components are between the web and rear face of the support, wherein the components are visually/mechanically accessible from a front face of the support opposite the rear face of the support.

As shown in figure C of the applied prior art reference, note that the adhesive layer molded onto the FPC surrounds the conductors/components leaving a space opening over the connective parts of the components as shown. This feature is deemed readable on the newly added limitations and claims 13-15.

Applicant argues that the prior office action acknowledge that this feature was not disclosed in the Japanese reference; for clarification, note that the abstract does not teach a through opening in molded part 5C, but does show an adhesive molding 6 that is molded around the conductors in figure C – it is this embodiment that is readable on the claimed limitations as presented in claims 1, 5, 6, 13, 14, 15.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela Ortiz whose telephone number is 571-272-1206. The examiner can normally be reached on Monday-Thursday 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Angela Ortiz
Primary Examiner
Art Unit 1732

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